INDEX.

	Farmers' Bulletin No.	Page.
Accounts, farm, method and blank forms	1139	5–17, 29–40
Adobe soils, use in rice growing, California	1141	3–4, 6, 13
Africa, native home of the cowpea	1148	3
Alabama—		
corn growing, practices and suggestions	1149	3–19
game laws, 1920	1138	9–10
Alaska, game laws, 1920	1138	10–11
Alberta, game laws, 1920	1138	45
Alfalfa, protection from grasshoppers by control in fields	1140	13–14
Amphorophora lactucae, habits and control	1128	30, 48
Anthracnose, pecan, cause and description	1129	11–12
Anuraphis—		
bakeri, description and control	1128	12, 38–47
crataegifolia, description and occurrence	1128	14–15
persicae-niger, description, habits and control	1128	26–27, 47–48
prunicola, description, habits and control	1128	28, 47–48
roseus, description, habits and control	1128	5–8, 38–47
Aphids—		
apple—		
description and seasonal history, and control	1128	5–14, 38–47
descriptions, injuries and control	1128	5–14, 38–47
cherry, description, and seasonal history, and control	1128	20–24, 38–45, 47
currant, descriptions, seasonal history and control	1128	28–35, 37–45, 48
fruit—		
control, bulletin by A. L. Quaintance and A. C. Baker	1128	1–48
control, natural and artificial	1128	37–48
enemies	1128	37–38
gooseberry, description, seasonal history, and control	1128	28–35, 37–45, 48
grape, description, seasonal history, and control	1128	36–37, 37–45, 48
peach, description and seasonal history, and control	1128	25–28, 38–45, 47
pear, descriptions and control	1128	15, 38–47
plum, description, habits and seasonal history, and control	1128	15–20, 38–45, 47–48
Aphis—		
cerasifoliae, description, habits and control	1128	22–23, 47–48
furcata, description, habits and control	1128	24, 47–48
illinoisensis, description, habits and control	1128	36–37, 48
neomexicanus, description and control	1128	33, 48
pomi, description, habits and control	1128	5–10, 38–47
ribis, description, habits, and control	1128	33–34, 48
sanborni, description and control	1128	33, 48
tuberculata, description, habits and control	1128	23–24, 47–48
varians, habits and control	1128	30–32, 48
Apple—		
aphids, description and seasonal history, and control	1128	5–14, 38–47
aphis, wooly, description, habits and control	1128	13, 38–47
pie, recipe	1136	35
Apple-bud aphis, description, habits and control	1128	10–12, 38–47

	Farmers' Bulletin No.	Page.
Apple-grain aphis, description, habits, and control	1128	10–12, 38–47
Arizona—		
game laws, 1920	1138	11
milo growing under irrigation	1147	7
Arkansas, game laws, 1920	1138	11–12
ASHBROOK, F. G., and A. WILSON, bulletin on "Feeding garbage to hogs"	1133	1–26
Ashes, wood, value as fertilizer for peanuts	1127	7
Asparagus bean. *See* Bean, asparagus.		
Auraphis—		
cardui, description, habits and control	1128	17, 47–48
helichrysi, description, habits and control	1128	20, 47–48
Bacteria—		
cowpeas, need and beneficial effects, sources of supply	1148	12
crimson clover, culture, sources of supply	1142	13
Bacterium tumefaciens, cause of pecan crown-gall, control	1129	11
BAKER—		
A. C., and A. L. QUAINTANCE, bulletin on "Control of aphids injurious to orchard fruits, currant, gooseberry, and grape"	1128	1–48
E. W., and G. H. BEDELL, bulletin on "Castrating and docking lambs"	1134	1–14
Baking, home, bulletin by Hannah L. Wessling	1136	1–40
Barns, location in farmstead, types, etc., suggestions	1132	15–17, 20, 22, 24
Bean, asparagus—		
origin, characteristics, and uses	1148	3, 11
description, and value	1148	11
value as table bean	1148	11
BEATTIE, W. R., bulletin on "Peanut growing for profit"	1127	1–33
BEDELL, G. H., and E. W. BAKER, bulletin on "Castrating and docking lambs"	1134	1–14
Beef calf, growth and development, bulletin by E. W. Sheets	1135	1–32
BETTS, M. C., and W. R. HUMPHRIES, bulletin on "Planning the farmstead"	1132	1–24
Birds—		
game, legislation, new, 1920	1138	5–6, 55–60
migratory—		
protection, convention between U. S. and Great Britain	1138	64–67
treaty act and regulations	1138	64–82
Biscuits, recipes and directions	1136	22–24
Blackleg, calf, symptoms, cause, and prevention	1135	12
Black-pit, pecan, description and investigations	1129	19
Bladderworms, sheep, description life history symptoms and treatment	1150	24–33
Blight, nursery, pecan, description and control	1129	7–8
Bordeaux mixture, formula for pecan spraying	1129	5
Boston brown bread, recipe	1136	29–30
Botryosphaeria berengeriana, control on pecan trees	1129	12–13
Brabham cowpea, description of seed and plant, yield, and disease resistance	1148	6, 8, 15, 22
Bran—		
poison, mixture for control of grasshoppers, formula and use	1140	8–16
rice, feed value	1141	22
use in muffins	1136	24–25
Bread—		
making—		
principles and methods	1136	4–8
sponge processes	1136	7–8, 10–11, 12, 13, 14, 15, 16, 17
straight-dough processes	1136	7, 8–10, 11–12, 13, 14, 16
scoring directions	1136	19–21, 28

	Farmers' Bulletin No.	Page.
Breads—		
quick, directions for home making and baking	1136	21–33
yeast, directions for home making and baking	1136	4–21
Breeding, animal, principles, study in selection of beef calves	1135	5–6
British Columbia, game laws, 1920	1138	45–46
Buckwheat, use as nurse crop for crimson clover	1142	18
Budworm, corn, control	1149	9–10
Buildings, farm, arranging in farmstead plan, suggestions	1132	12, 14–24
Buildings, farm, orientation, importance	1132	10–11
Buildings, plans, supply by Public Roads Bureau	1132	24
Bull, young, feed and care	1135	32
Bunostomum trigonocephalum, description, occurrence, in sheep and treatment	1150	45–47
Calf—		
beef, growth and development, bulletin by E. W. Sheets	1135	1–32
diseases and remedies	1135	11–14
feeds, recommendations	1135	14–15, 17
prize, keeping for breeding purposes	1135	29–30
selection for breeding purposes, and judging	1135	6–8
selection for club work, time, and kind of animal	1135	3–8
training to halter	1135	19
California—		
Biggs Rice Field Station, establishment and work	1141	3–4
cantaloupe shipments to New York, conditions	1145	4, 5, 7, 13, 14, 16, 17, 18, 19
game laws, 1920	1138	12–13
milo growing under irrigation	1147	7
rice growing, bulletin by Charles E. Chambliss	1141	1–22
rice-growing sections, location, climate, and soils	1141	4–6
Callivance. *See* Cowpeas.		
Calves—		
feeding, before and after weaning	1135	14–19
feeding rules	1135	18–19
preparing for show or sale, directions	1135	19–29
raising, equipment	1135	8–11
transportation and handling for exhibition	1135	28–29
weaning, directions	1135	17
Canada, game laws, 1920	1138	4, 5, 7, 44–52, 59–61, 76–82
Camnula pellucida, description and habits	1140	5
Cantaloupe, shipping investigations	1145	3, 23
Cantaloupes—		
handling and transportation, bulletin by A. W. KcKay, G. L. Fischer, and A. E. Nelson	1145	1–23
handling to prevent bruising and decay	1145	4–6
loading into refrigerator cars, promptness, importance	1145	6–7
packing directions	1145	5–6
picking for long distance shipping	1145	4
refrigeration in transit	1145	9–20
transportation, long distances	1145	3–4
wrapping, objections to	1145	7–9
Carbon bisulphid, fumigation of cowpeas for insect control	1148	23
Carpet grass—		
bulletin by C. V. Piper and Lyman Carrier	1130	1–12
establishment and carrying capacity	1130	7–10
growing in mixtures with other grasses	1130	10–11
seed crop, harvesting, and cleaning	1130	12
value, description, history, etc	1130	3–6
CARRIER, LYMAN—		
and C. V. PIPER, bulletin on "Carpet grass"	1130	1–12
bulletin on "Lespedeza as a forage crop"	1143	1–15
Cars, refrigerator, basket bunker construction, advantages	1145	12–15, 20
Castration, lambs—		
and docking, bulletin by G. H. Bedell and E. W. Baker	1134	1–14
benefits, and method of operating	1134	9–11

	Farmers' Bulletin No.	Page.
Catjang—		
buff, value for South	1148	10
origin, characteristics and uses	1148	3, 10
Cattle—		
feeding on Sudan grass hay	1126	21
poisoning by prussic acid in Sudan grass, instances	1126	18–19
Cercospora fusca, description, occurrence on pecans, and control	1129	10–11
CHAMBLISS, CHARLES E., bulletin on "Rice growing in California"	1141	1–22
Cherry, aphids—		
description and seasonal history, and control	1128	20–24, 38–45, 47
description, habits, and control	1128	20–24, 47–48
Chinch bugs, injury to Sudan grass, and control	1126	26–27
Chocolate cream pie, recipe and directions	1136	35
Choke cherry—		
aphis, small, habits and control	1128	24, 47–48
grain aphis, description, habits and control	1128	23, 47–48
Cholera, hog, danger from feeding garbage	1133	19
Clover—		
aphis, injury to apple, description and control	1128	12, 38–47
crimson—		
growing, bulletin by L. W. Keyport	1142	1–20
history, uses, and varieties	1142	3–6
pasturing in fall	1142	20
requirements, soils, fertilizers, and inoculation	1142	8–13
seeding, rate and methods	1142	13–15
stem-rot disease, symptoms, and prevention	1142	13, 20
varieties for mixture with carpet grass	1130	10
Cochliomvia macellaria, description, habits and control on sheep	1150	15–16
Cold storage, cowpeas, for control of insects	1148	24
Colorado, game laws, 1920	1138	13
Complement-fixation, test for diagnosis of dourine	1146	3, 10–11
Connecticut, game laws, 1920	1138	14
Constipation, calf, causes and treatment	1135	11–12
Cookies, directions for making and baking	1136	37–40
Cooking, baking in home, bulletin by Hannah L. Wessling	1136	1–40
Cooperative marketing, bulletin by O. B. Jesness	1144	1–27
Corn—		
benefit by rotation with crimson clover	1142	6
budworm, control	1149	9–10
cultivation, methods and implements	1149	14–18
fertilizers, formulas and directions	1149	5–9
growing—		
in Southeastern States, bulletin by C. H. Kyle	1149	1–19
with cowpeas for hay or silage	1148	18
land, preparation	1149	3–5
planting, time, methods, and rate	1149	9–14
plants per acre, distribution and number	1149	12–13
soil requirements, moisture, drainage, breaking, and humus	1149	3–5
stand, losses, causes and prevention	1149	13–14
Cornfield pea. *See* Cowpeas.		
Corrals, sheep disinfection	1150	10, 13
Cowpea, history, origin, groups and varieties	1148	3–4
Cowpeas—		
climate and soil requirements	1148	4–5
culture and varieties, bulletin by W. J. Morse	1148	1–26
diseases, description and control	1148	21–23
distribution in United States, outline map	1148	5
fertilizers	1148	11–12
growing—		
in rotations	1148	16–17
with other crops for hay or silage	1148	18–21
names used in different regions	1148	4
root-knot, description, cause, and control	1148	21–22
sowing, time, rate, and methods, and yield tests	1148	13–15
value, comparison with soy beans and velvet beans	1148	25–26

	Farmers' Bulletin No.	Page.
Cowpeas—Continued.		
varieties—		
description of seed and plants, and adaptation	1148	6–11
resistant to disease	1148	8, 22
wilt, description and control	1148	22–23
Cows, feeding on Sudan grass hay, comparison with alfalfa	1126	21
Crib, grain sorghum, construction	1137	22
Crimson clover. *See* Clover, crimson.		
Crop, yields in relation to labor income, finding crop index	1139	22–23
Cropping systems, place of Sudan grass	1126	9
Crops—		
intertilled, seeding to crimson clover, value	1142	6–7, 14
records keeping, instructions and blank forms	1139	7, 30, 31, 36
rotation in peanut growing	1127	5
work required per acre, table	1139	19
Crown-gall, pecan, description	1129	11
Crows, injury to corn seed, prevention	1149	13
Cultivators, corn, description and use	1149	14–18
Curing, milo, directions	1147	14
Currant aphids, descriptions, habits and control	1128	28–32, 33, 35, 48
Currants, aphids—		
injurious, and to fruits, gooseberries and grapes, conrtol measures, bulletin by A. L. Quaintance and A. C. Baker	1128	1–48
injurious, description, habits, and control	1128	28–35, 37–45, 48
Cysticercus—		
ovis, description, occurrence in sheep	1150	26–27
tenuicollis, description, and occurrence in sheep	1150	24–26
Dallas grass, occurrence of seed in lespedeza seed	1143	7
Delaware, game laws, 1920	1138	14–15
DEMAREE, J. B., and S. M. MCMURRAN, bulletin on "Diseases of southern pecans"	1129	1–22
Diarrhea, calf, remedies	1135	12
Dictyocaulus filaria, description, occurrence in sheep, and treatment	1150	50–51
Dieback, pecan, cause and treatment	1129	12–13
Diggers, peanut, types	1127	16
Dips, sheep, constituents and application methods	1150	7, 8, 9, 13
Diseases—		
cowpeas, description, and control	1148	21–35
parasitic, of sheep, and parasites, bulletin by Maurice C. Hall	1150	1–53
Disinfection, sheep inclosures	1150	8, 9–10, 13
Dissosteira spurcata, description and habits	1140	6
District of Columbia, game laws, 1920	1138	15
DIXON, H. M., and H. W. HAWTHORNE, bulletin on "A method of analyzing the farm business"	1139	1–40
Docking lambs—		
and castrating, bulletin by G. H. Bedell and E. W. Baker	1134	1–14
benefits and method of operation	1134	11–13
Dodgers, corn meal, recipes	1136	29
Dogberry aphis, description, habits and control	1128	35, 48
Dogs—		
tapeworms, infestation and treatment	1150	24–26, 27, 31–33
treatment for tapeworms	1150	25–26
Dourine—		
cause, transmission, symptoms, course and outcome	1146	4–10
disease of horses, bulletin by J. R. Mohler and H. W. Schoening	1146	1–12
historical notes	1146	3–4
Drainage—		
necessity in corn growing	1149	3
rice, requirements and provisions	1141	7, 14–15
Drenching sheep with copper sulphate solution, directions	1150	39–41
Drill, use in sowing grain sorghum	1137	19
Dry-land plant, Sudan grass	1126	7–8

	Farmers' Bulletin No.	Page.
Durra, names, description, habits and requirements	1137	10–11
Dwelling, farm, plan and location	1132	14, 16, 21, 25
Ear tick, spinose, injury to sheep and control	1150	13–15
EARNSHAW, FRANK L., and GEO. A. LAWYER, bulletin on "Game laws for 1920."	1138	1–84
Echinococcus granulosus, description, occurrence in sheep and dogs, preventive measures	1150	31–33
Enigma grasshopper, description and habits	1140	5
Eriosoma lanigerum, description, habits and control	1128	13, 38–47
Excavators, types, wheel, endless chain, and scraper, sizes and prices	1131	9–20
Fagiola, *See* Cowpeas.		
Farm—		
accounts, method and blank forms	1139	5–17, 29–40
business—		
method of analyzing, bulletin by H. M. Dixon and H. W. Hawthorne	1139	1–40
relation to labor income	1139	18–22
dwelling, plan and location in farmstead	1132	14, 16, 20, 21, 23
expenses, records keeping, instructions and blanks	1139	9–11, 35, 36, 37, 38
hog, location and equipment for garbage feeding	1133	9–10
inventory, instructions and blank form	1139	6–7, 38
investment, records keeping, instructions and blanks	1139	11–13, 38
products—		
community packing for market, advantages	1144	4
marketing associations, purpose, value, and organization	1144	3–27
standardization, effect of cooperation	1144	3–4
profits, factors affecting, study of farms in different localities	1139	14–15, 17–27
Farmers—		
income tax, accounting metbod	1139	5
marketing associations, organization, advantages, etc	1144	3–27
Farmhouse, location with regard to orientation and winds	1132	10–12
Farming, type, relation to labor income	1139	17–18
Farmstead—		
planning, bulletin by M. C. Betts, and W. R. Humphries	1132	1–24
plans for, descriptions and illustrations	1132	14–24
Fasciola hepatica, description, occurrence in sheep and dogs, prevention	1150	33–36
Fascioloides magna, description, occurrence in sheep	1150	36–37
Feed—		
garbage, composition, value, etc	1133	4–6
Sudan grass, composition, palatability, etc	1126	20–21
use of rice by-products	1141	22
Feeding—		
hogs, use of garbage, bulletin by F. G. Ashbrook and A. Wilson	1133	1–26
live stock, milo use and value	1147	17
Feeds—		
calf, concentrates and roughages, recommendations	1135	14, 15, 17
supplementary, for garbage-fed hogs, experiments	1133	17–18, 26
Fertilizers—		
corn, formulas and directions	1149	5–9
cowpea	1148	11–12
crimson clover	1142	11–12
lespedeza	1143	5–6
peanut	1127	6–7
Feterita, description, requirements and acreage	1137	10
Fields, cultivated, protection from grasshoppers	1140	16
FISCHER, G. L., A. W. MCKAY, and A. E. NELSON, bulletin on "Handling and transportation of cantaloupes"	1145	1–23

	Farmers' Bulletin No.	Page.
Florida—		
corn growing, practices and suggestions	1149	3–19
game laws, 1920	1138	15–16
Flukes, sheep infestation, description, life history, and control	1150	33–37
Food—		
cowpea, varieties grown for	1148	3–4, 7, 10–11
milo, use and value	1147	18
Foot scab, sheep, treatment	1150	13
Forage—		
crop, lespedeza, bulletin by Lyman Carrier	1134	15
crops and grasses, publications, list	1126	29–30
Forests, National, hunting on	1138	64
Formalin, use in control of kernel smut of Sudan grass	1126	26
French clover. *See* Clover, crimson.		
Fringed tapeworm, description, and occurrence in sheep	1150	22–23
Fruits—		
aphids injurious, control, bulletin by A. L. Quaintance and A. C. Baker	1128	1–48
spraying for aphids, formulas and directions	1128	38–48
Fumigation, cowpea seed, for insect control	1148	23–24
Fungi—		
injurious to pecans, and control methods	1129	3–13
wood-rotting, injury to pecan trees, and control	1129	9–10
Fusicladium effusum—		
description and control	1129	5–7
nature, occurrence on pecans, and control	1129	3–7
Galls, cowpea root-knot, description, comparison with nodules	1148	21
Game—		
big, legislation affecting, 1920	1138	4, 58–61
interstate commerce, Lacey Act	1138	61–63
laws—		
for 1920, bulletin by Geo. A. Lawyer and Frank L. Earnshaw	1138	1–84
summary for States and Dominion of Canada	1138	8–52
legislation, 1920, review	1138	3–7, 55–61
publications of Department, list	1138	84
raising in captivity and disposition of, regulations	1138	52–55
Garbage—		
city, collection suggestions	1133	7–8
composition, feed value, collection, and utilization	1133	4–9
feeding—		
relation to diseases in hogs	1133	19–21, 26
to hogs, bulletin by F. G. Ashbrook and A. Wilson	1133	1–26
products of, composition and uses	1133	24
Georgia—		
corn growing, practices and suggestions	1149	3–19
game laws, 1920	1138	16
German clover. *See* Clover, crimson.		
Gid parasite, origin, description, life history, symptoms and control	1150	27–31
Glomorella cingulata, cause of pecan anthracnose, control	1129	11–12
Gooseberries, aphids—		
injurious to, and to fruits, currants and grapes, control measures, bulletin by A. L. Quaintance and A. C. Baker	1128	1–48
injurious to, description, habits and control	1128	28–35, 37–45, 48
Graham bread, directions for making	1136	12, 17, 23, 24, 29
Grain—		
rations for calves and substitute feeds	1135	17–18
sorghums, growing, bulletin by Benton E. Rothgeb	1137	1–26
See also Sorghums, grain.		
Grape, aphids—		
description, seasonal history, and control	1128	36–37, 38–45, 48
injurious to, and to fruits, currants and gooseberries, control measures, bulletin by A. L. Quaintance and A. C. Baker	1128	1–28

	Farmers' Bulletin No.	Page.
Grapevine aphis, description, habits and control	1128	36–37, 48
Grass—		
barnyard, control in rice fields	1141	18–20
canary, injurious in rice fields, control	1141	21
carpet, bulletin by C. V. Piper and Lyman Carrier	1130	1–12
Sudan, bulletin by H. N. Vinall	1126	1–30
See also Sudan grass.		
Grasses—		
publications, list	1126	29–30
varieties for mixtures with carpet grass	1130	10–11
Grasshopper—		
California, devastating, description, and habits	1140	4
control by community action, organization	1140	6–7
differential, description and habits	1140	4
eggs, destruction by cultivation of soil	1140	11–12
enigma, description, and habits	1140	5
foul, description and habits	1140	6
lesser migratory, description and habits	1140	5
pellucid, description and habits	1140	5
red-legged, description and habits	1140	6
Grasshoppers—		
control in Pacific States, bulletin by T. D. Urbahns	1140	1–16
destructive, descriptions and habits	1140	4–6
outbreaks in Western States, causes and results	1140	3–4
Griddle cakes, recipes and directions	1136	30–31
Groit cowpea, description of seed and plant, and yields	1148	6, 7, 14
Grub-in-the-head, sheep, description and control	1150	17–19
Haematopinus ovillus, description and control on sheep	1150	5, 6, 7–8
Haemonogus contortus, description, occurrence in sheep, and treatment	1150	38–42
HALL, MAURICE C., bulletin on "Parasites and parasitic diseases of sheep"	1150	1–53
Halter, rope, directions for making	1135	10–11
Hardpan, piney woods, management for pecan growing	1129	14
Harrowing, grain-sorghum crop	1137	18, 21
Harvesting—		
cantaloupes for long distance shipping	1145	4
grain-sorghum	1137	21
milo, methods	1147	14
peanuts, time and methods	1127	15–16
rice, directions	1141	15
Sudan grass	1126	14–16
Hawkweed aphis, occurrence on plum trees, description and control	1128	20, 47–48
HAWTHORNE, H. W., and H. M. DIXON, bulletin on "A method of analyzing the farm business"	1139	1–40
Hay—		
cowpeas and other crops in mixtures	1148	18–21
lespedeza, value and production	1143	9, 10
peanut, value as feed, caution, etc	1127	25–26
Sudan grass—		
comparison with millet and sorgo	1126	9
quality, yields, and feed value	1126	9, 10, 16–17, 20–21
Head scab, sheep, treatment	1150	13
Heifer, breeding, feed and care	1135	30–31
Hesteroneura sattarine, description, habits and control	1128	17–18, 47–48
Hindu cowpea. *See* Catjang.		
Hogs—		
breeds, adaptability to garbage feeding	1133	11
buying for garbage feeding, comparison with raising	1133	12, 25
diseases, relation to garbage feeding, precautions, etc	1133	19–21, 26
farms for, location and equipment for garbage feeding	1133	9–10

	Farmers' Bulletin No.	Page.
Hogs—Continued.		
feeding—		
garbage, bulletin by F. G. Ashbrook and A. Wilson	1133	1–26
with peanuts	1127	27
gain on garbage feeding	1133	5–6, 16, 17, 25
grazing on Sudan grass	1126	18, 19
management, pens, etc., in feeding garbage	1133	9–10, 13–15, 25
profits in feeding on garbage	1133	21–24
Home, farm, planning for comfort and convenience	1132	4–12
Hookworm, sheep, description, life history, symptoms, and prevention	1150	45–47
Hop aphis, occurrence on plum trees, description and control	1128	18, 47–48
Horns, calf, training and polishing	1135	26–27
Horses—		
dourine, bulletin by J. H. Mohler and H. W. Schoening	1146	1–12
grazing on Sudan grass	1126	18, 19
Houghton gooseberry aphis, description, habits and control	1128	34–35, 48
HUMPHRIES, W. R., and M. C. BETTS, bulletin on "Planning the farmstead"	1132	1–24
Humus, value in growing corn	1149	3, 5, 18
Hunting, National Forests, prohibition	1138	64
Hyalopterus arundinis, description, habits, and control	1128	19–20, 47–48
Hydatids, parasite, description, development in dog, etc	1150	31–33
Idaho, game laws, 1920	1138	16–17
Illinois, game laws, 1920	1138	17–18
Implements, corn growing in Southeastern States, description	1149	4, 10–12, 14–18
Income tax, farmers', accounting method	1139	5
Indian pea. *See* Cowpeas.		
Indiana, game laws, 1920	1138	18
Inoculation—		
cowpeas, necessity	1148	12
crimson clover, needs and methods	1142	13
Insects, injurious to milo	1147	18
Iowa, game laws, 1920	1138	18–19
Iron cowpea, description of seed and plant, and disease resistance	1148	6, 8, 22
Irrigation—		
rice, preparation of fields, and application of water	1141	7–8, 13–14
Sudan grass, yields, comparison with alfalfa yields	1126	9–10
Italian clover. *See* Clover, crimson.		
Japan clover. *See* Lespedeza.		
JESNESS, O. B., bulletin on "Cooperative marketing"	1144	1–27
Johnson grass—		
comparison with Sudan grass	1126	3–6
growing with cowpeas for hay	1148	19–20
Judging, calf, in selecting for breeding purposes	1135	6–8
Kafir, descriptions, varieties, yields, etc	1137	4–8, 12–13
Kansas—		
game laws, 1920	1138	19
milo, growing and yields	1147	6, 9
Kaoliangs, origin, description, and yields	1137	11
Kentucky, game laws, 1920	1138	19
KEPHART, L. W., bulletin on "Growing crimson clover"	1142	1–20
Kernel spot, pecan, investigations	1129	18
Kubia. *See* Cowpeas.		
Kunde. *See* Cowpeas.		
KYLE, C. H., bulletin on "Corn growing in the Southeastern States"	1149	1–19
Labor—		
income—		
farmers', factors affecting, study of farms in various localities	1139	14–15, 17–27
record keeping, instructions and blanks	1139	16, 39

	Farmers' Bulletin No.	Page.
Labor—Continued.		
saving in farmstead plan	1132	12
use, efficiency, relation to labor income on farms	1139	24–25
Lacey Act, regulating interstate commerce in game	1138	61–63
Lamb, production of good carcass, essentials	1134	3
Lambs—		
castrating and docking, bulletin by G. H. Bedell and E. W. Baker	1134	1–14
castration and docking, advantages in marketing	1134	4–8
farm—		
neglect of castration and dockage, cause of loss in marketing	1134	4–6
quality on market	1134	4
marketing, advantages of castration and docking	1134	4–8
protection from worm infestation	1150	41–42, 44–45
Laws, game—		
for 1920, bulletin by Geo. A. Lawyer and Frank L. Earnshaw	1138	1–84
summary for States and Dominion of Canada	1138	8–52
LAWYER, GEO. A., and FRANK L. EARNSHAW, bulletin on "Game laws for 1920"	1138	1–84
Leaf-spot, brown—		
control on pecan	1129	10–11
nature, occurrence on pecans, and control	1129	10–11
Legislation, game, 1920, review	1138	3–7, 55–61
See also Laws.		
Legumes—		
green, manure, in growing corn	1149	5
mixtures with Sudan grass, yields and forage value	1126	10–11
Lespedeza—		
fertilizers	1143	5–6
forage crop, bulletin by Lyman Carrier	1143	1–15
mixture with carpet grass	1130	10
pastures, value	1143	9–11
seeding, time, methods and rate	1143	6–9
striata, history, growing and value	1143	3–15
uses, and value	1143	9–14
Lice—		
sheep, description, kinds, life history, symptoms and control	1150	5–8
treatment on calves	1135	12–13
Lichens, pecan, control	1129	20
Lime—		
powdered, use in control of weevils in cowpeas	1148	24
use in peanut growing	1127	6–7
Liming, crimson clover, suggestions	1142	12
Linognathus pedalis, description and control on sheep	1150	5, 6, 7–8
Lister, use in planting corn	1149	10–11, 13
Listing, grain-sorghum crop	1137	18, 21
Live stock—		
danger from poison bran in grasshopper districts	1140	11
feed, milo use and value	1147	17
records, keeping, instructions and blanks	1139	8, 32, 34
returns from, relation to labor income	1139	23–24
Liver flukes, descriptions, occurrence in sheep, symptoms, etc	1150	36–37
Long Island, game laws, 1920	1138	31
Louisiana—		
game laws, 1920	1138	20
grass. *See* Carpet grass.		
Louse—		
biting, of sheep, description and control	1150	5, 6, 7–8
foot, of sheep, description and control	1150	5, 6, 7–8
sucking body, of sheep, description and control	1150	5–6, 7–8
Lower California, Northern District, game laws, 1920	1138	52
Lungworms, sheep, description, life history, and control	1150	50–53
Machines, trenching, types, description, capacity, and cost	1131	4–14
Macrosiphum ripiellum, description, habits, and control	1128	35, 48
Maggots, sheep-wool, habits and control	1150	16

	Farmers' Bulletin No.	Page.
Maine, game laws, 1920	1138	20–21
Mange, calf, treatment	1135	13–14
Manitoba, game laws, 1920	1138	46–47
Manure—		
top dressing for crimson clover	1142	12
value in corn growing	1149	5
Mares, dourine, symptoms and post-mortem lesions	1146	5–9
Marketing—		
associations, organization, forms, finances, by-laws, officers, etc.	1144	16–26
cooperative—		
associations, number and growth in United States	1144	3
bulletin by O. B. Jesness	1144	1–27
purpose and possibilities	1144	3–6
success, essentials and principles	1144	8–12
lambs, advantages of castration and docking	1134	4–8
peanuts	1127	25
Markets, sheep, discrimination against native lambs	1134	4–6
Maryland—		
Annapolis, garbage feeding experiment, summary	1133	24
game laws, 1920	1138	21–23
Massachusetts—		
game laws, 1920	1138	23–24
Worcester, city garbage feeding, cost and profit	1133	21–23
McKay, A. W., G. L. Fischer, and A. E. Nelson, bulletin on "Handling and transportation of cantaloupes"	1145	1–25
McMurran, S. M., and J. B. Demaree, bulletin on "Diseases of Southern pecans"	1129	1–22
Meadows, mountain, protection from grasshoppers	1140	16
Meal, corn—		
biscuits, muffins, dodgers, and other quick breads, recipes	1136	23, 25–26, 28, 29, 30, 31
light bread, recipe and directions	1136	15
Mealy plum aphis, description, habits, and control	1128	19–20, 47–48
Melanoplus spp. description and habits	1140	4–6
Melophagus ovinus, description, habits, and control on sheep	1150	8–10
Michigan, game laws, 1920	1138	24–25
Microsphaera alni, occurrence on pecan trees, control	1129	12
Midge, sorghum—		
damage to milo	1147	18
injury to Sudan grass, prevention	1126	27
Mildew, powdery—		
description and control on pecan trees	1129	12
pecan, cause and description	1129	12
Millet—		
growing with cowpeas for hay	1148	20
hay, comparison with Sudan grass and sorgo hay	1126	9
Milo—		
acreage and value, increase since 1899	1147	3
characters and chemical composition, digestibility, etc	1147	4–5, 16–17
freedom from disease	1147	18
grain crop, valuable, bulletin by Benton E. Rothgeb	1147	1–19
growing, cultural details	1147	10–16
harvesting, curing, thrashing, and storing	1147	14–16
historical notes	1147	3–4
varieties—		
description and adaptability	1147	7–8
descriptions and requirements	1137	8–10, 12
yields, Oklahoma and Texas	1147	9
Minnesota, game laws, 1920	1138	25
Mississippi, game laws, 1920	1138	26
Missouri, game laws, 1920	1138	26
Mistletoe, control on pecan	1129	12
Mite, sheep-scab, description, life history, and control	1150	10–13

	Farmers' Bulletin No.	Page.
MOHLER, J. R., and H. W. SCHOENING, bulletin on "Dourine of horses"	1146	1–12
Moisture, corn, crop requirements and conservation	1149	3
Moniezia—		
expansa, description, occurrence in sheep, and treatment	1150	20–22
tapeworms, description, occurrence in sheep, and treatment	1150	20–22
Montana, game laws, 1920	1138	27
MORSE, W. J., bulletin on "Cowpeas: Culture and varieties"	1148	1–26
Muffins, yeast and quick doughs, recipes	1136	18, 24–28
Mules, feeding on Sudan grass hay, comparison with other hays	1126	20–21
Multiceps multiceps, description, occurrence in sheep, and treatment	1150	27–31
Myzus—		
cerasi, description, habits, and control	1128	20–22, 47–48
cynosbati, description, habits, and control	1128	35, 48
description, habits, and control	1128	28–30, 48
dispar, description, habits, and control	1128	30, 48
houghtonensis, description, habits, and control	1128	34–35, 48
persicae, description, habits, and control	1128	25, 47–48
ribifolii, description, habits, and control	1128	35, 48
varians, description, habits, and control		28, 47–48
Nebraska, game laws, 1920	1138	27–28
NELSON, A. E., A. W. MCKAY, and G. L. FISCHER, bulletin on "Handling and transportation of cantaloupes"	1145	1–23
Nematodes, cause of root-knot of cowpeas	1148	22
Nematodirus filicollis, description, occurrence in sheep, etc	1150	47–48
Nevada, game laws, 1920	1138	28
New Brunswick, game laws, 1920	1138	47
New Era cowpea, description of seed and plant, and yields	1148	6, 7, 14
New Hampshire, game laws, 1920	1138	28–29
New Jersey, game laws, 1920	1138	29–30
New Mexico—		
game laws, 1920	1138	30
gooseberry aphis, description, habits, and control	1128	33, 48
New York, game laws, 1920	1138	30–31
Newfoundland Colony, game laws, 1920	1138	52
Nitrogen sources for fertilizing corn, and equivalents in materials	1149	6–8
Nodular worm, occurrence in sheep, description, habits, and treatment	1150	42–45
Nodules, cowpea roots, description, comparison with nematode galls	1148	12, 13, 22
North Carolina—		
corn growing, practices and suggestions	1149	3–19
game laws, 1920	1138	32
North Dakota, game laws, 1920	1138	32–33
Northwest Territories, game laws, 1920	1138	48
Nova Scotia, game laws, 1920	1138	48–49
Nurse crops, crimson clover, suggestions	1142	17–18
Nursery blight, pecan disease, description and control	1129	7–8
Oatmeal, cakes and macaroons from, recipes	1136	39
Oats, growing with crimson clover as mixture for hay	1142	18
Octobius megnini, description, habits, and control on sheep	1150	13–15
Oedalus enigma, description and habits	1140	5
Œstrus ovis, description and control on sheep	1150	17
Ohio, game laws, 1920	1138	33
Oklahoma—		
game laws, 1920	1138	33–34
milo growing and yields	1147	6, 8, 9
Ontario, game laws, 1920	1138	49
Orchards—		
aphids injurious to fruits, description and control, bulletin by A. L. Quaintance and A. C. Baker	1128	1–48
protection from grasshoppers	1140	14–15
Oregon, game laws, 1920	1138	34–36

	Farmers' Bulletin No.	Page.
Pacific States, grasshopper control, bulletin by T. D. Urbahns	1140	1–16
Packing—		
cantaloupes, directions	1145	5–6
farm products for market, community work	1144	4
Parasites—		
external, of sheep, description, life history, symptoms, and control	1150	5–16
internal, of sheep, description, life history, symptoms, and control	1150	16–53
sheep—		
and parasitic diseases, bulletin by Maurice C. Hall	1150	1–53
publications on	1150	53
Pastry—		
directions for making and baking	1136	33–37
left-overs, utilization	1136	36–37
Pasture, Sudan grass, value for stock, danger for cattle	1126	18–19
Pastures—		
carpet-grass, grazing capacity	1130	9–10
lespedeza, value	1143	9–11
Peach, aphids—		
description and seasonal history, and control	1128	25–28, 38–45, 47
description, habits, and control	1128	25–28, 47–48
Peanut—		
bread, recipe	1136	13
butter, use as shortening	1136	23, 27
Peanuts—		
cost of growing an acre	1127	31
feed value for stock	1127	25–28
growing for profit, bulletin by W. R. Beattie	1127	1–33
harvesting, stacking and curing	1127	15–19
nitrogen-gathering quality	1127	7
planter, description	1127	12
seed, protection from rodents	1127	9–10
varieties, description, and location where grown	1127	29–30
Pear aphids, description and control	1128	15, 38–47
Peas. *See* Cowpeas.		
Pecan—		
fungous growths, nature and control	1129	20
pruning, protection of wounds, importance	1129	9–10
scab, nature, occurrence and control	1129	3–7
winter injury, cause and prevention	1129	15–17
Pecans—		
belt, location	1129	3
brown leaf-spot, nature, occurrence and control	1129	10–11
diseases, spread, methods and prevention	1129	20–22
soil requirements	1129	14, 21
Southern, diseases, bulletin by S. M. McMurran and J. B. Demaree	1129	1–22
spraying for disease control	1129	5–8, 11
susceptibility to scab, and resistant varieties	1129	4–5
Pens, hog, requirements in garbage feeding	1133	10, 13–15, 25
Petit gazon. *See* Carpet grass.		
Phaseolus. *See* Cowpeas.		
Phoridon humuli, description, habits and control	1128	18, 47–48
Phormia regina, description and control on sheep	1150	16
Phyllosticta caryae, description and control	1129	7–8
Phylloxera, description, note	1128	36
Picking, peanuts, methods	1127	19–22
Pie-crust, directions for making and baking	1136	33–34, 35
Pies, recipes	1136	33–37
PIPER, C. V., and LYMAN CARRIER, bulletin on "Carpet grass"	1130	1–10
Planter, peanut, description and use	1127	12
Planting, corn, time, methods and rate	1149	9–14

	Farmers' Bulletin No.	Page.
Plowing—		
grain-sorghum directions	1137	18
land for corn	1149	4
Plows, ditching, types and cost	1131	4–9
Plums, aphids, description, habits and seasonal history, and control	1128	15–20, 38–45, 47, 48
Pneumonia, hog, prevention in garbage feeding	1133	20
Poison—		
bran, formula	1140	8–9
use in grasshopper control, directions	1140	8–16
Polish, rice, use as feed	1141	22
Pork—		
danger from trichinae, cooking as preventive	1133	18
garbage-fed, quality	1133	18
quality and quantity from garbage feeding	1133	5–6, 16, 17, 18, 25, 26
Potash, sources for fertilizing corn	1149	6
Potato bread, recipe	1136	14–15
Poultry, danger from poisoned grasshoppers and bran	1140	11
Powdery mildew, occurrence on pecan trees and control	1129	12
Prince Edward Island, game laws, 1920	1138	49–50
Profits, farm, factors affecting, study of farms in different localities	1139	14–15, 17–27
Proteracrum columbianum, description, occurrence in sheep, and treatment	1150	42–45
Prussic acid, occurrence in Sudan grass, cause, and effect on cattle	1126	18–19
Psoroptes communis, description, habits and control on sheep	1150	10–13
QUAINTANCE, A. L., and A. C. BAKER, bulletin on "Control of aphids injurious to orchard fruits, currant, gooseberry and grape"	1128	1–48
Quebec, game laws, 1920	1138	50
Quince aphids, notes	1128	14
Raisin bread, recipe	1136	13
Ranges, protection by grasshopper control	1140	13
Rations, calf, and substitute feeds	1135	17–18
Red-spot, Sudan grass, description and control by rotation	1126	24
Refrigeration, cantaloupes in transit	1145	9–20
Rhode Island, game laws, 1920	1138	36
Rhopalosiphum—		
nymphaeae, description, habits and control	1128	17–18, 47–48
prunifoliae, description, habits and control	1128	10–12, 38–47
pseudoavenae, description, habits, and control	1128	23, 47–48
Rice—		
acreage, production and value in California, 1912–1919	1141	3–4
bread, recipe	1136	15
drainage, requirements and provisions	1141	7, 14–15
grades and by-products, uses and food value	1141	21–22
harvesting, shocking, and thrashing, directions	1141	15–17
irrigation, preparation of fields, and application of water	1141	7–8, 13–14
polish, use as feed	1141	22
polishing, injury to food value	1141	21
red, injurious weed in rice fields, control	1141	20
requirements, irrigation and drainage, source of water, etc	1141	7–8
seeding, method, time, rate, and depth	1141	12–13
waffles, recipe	1136	32
weeds injurious, description and control	1141	17–21
Roads Bureau, building plans, supply to farmers	1132	24
Rolls, recipes	1136	16–19
Root-knot, cowpea, description, cause, and control	1148	21–22
Root-worms, Southern corn, control	1149	9–10
Rosette, pecan, description, cause and control	1129	13–14, 21

	Farmers' Bulletin No.	Page.
Rotations—		
cowpeas	1148	16–17
crimson clover, uses	1142	6–8
ROTHGEB, BENTON E., bulletin on—		
"Grain sorghums: How to grow them"	1137	1–26
"Milo, a valuable grain crop"	1147	1–19
Roundworms, sheep, description life history, symptoms and control	1150	37–53
Rye grass, Italian, mixture with carpet grass	1130	10
Salt, use with ice to hasten refrigeration	1145	15–20
Saskatchewan, game laws, 1920	1138	51
Scab—		
foot, of sheep, treatment	1150	13
head, of sheep, treatment	1150	13
pecan, description and control	1129	3–7
sheep, cause, symptoms and treatment	1150	10–13
Scarlet clover. *See* Clover, crimson.		
SCHOENING, H. W., and J. R. MOHLER, bulletin on "Dourine of horses"	1146	1–12
Scoring, bread, directions	1136	19–21, 28
Scours, calf, causes and remedies	1135	12
Screw worm, infestation of sheep, description, life history, and control	1150	15–16
Seed—		
bed—		
crimson clover, preparation	1142	10–11
grain sorghums, preparations	1137	17–18
milo, preparation, plowing and harrowing	1147	10–12
carpet-grass, ripening, harvesting, demand, etc	1130	11–12
cowpeas, insect control in	1148	23–25
crimson clover—		
description and choice	1142	16–17
occurrence of weed seed	1142	16
unhulled, weight and quality	1142	16–17
grain-sorghum, selection, storing and cleaning	1137	13–17
lespedeza, viability, impurities, etc	1143	6–9
milo, selection and sowing	1147	10, 12–13
mixtures with crimson clover, and seeding rates	1142	18–19
peanut, selection, preparation, and quantity per acre	1127	7–11
rice, preparation and germination test	1141	11–12
sorghum, treatment for kernel smut	1137	17
Sudan grass, production, yields, and importance of purity	1126	21–24
Seeding—		
cowpeas, time, rate and methods, and yield tests	1148	13–15
crimson clover, rate and methods	1142	13–15
grain sorghums, methods, time rate, etc	1137	19–21
lespedeza, time and methods, and rate	1143	6–9
milo, method, time, and rate	1147	12–13
rice, method, time, rate, and depth	1141	12–13
Sudan grass, date, methods, and rate, directions	1126	12–14
Seeds—		
cowpea, varieties, and descriptions	1148	6–7
Johnson grass, description and comparison with Sudan grass seed	1126	23
Sudan grass, description and comparison with Johnson grass seeds	1126	22, 23
Shallu, growing, requirements and yields	1137	12
Sheep—		
bladderworms, description, life history, symptoms, and control	1150	24–33
castrating and docking lambs, bulletin by E. W. Baker and G. H. Bedell	1134	1–14
dips, constituents and application methods	1150	7, 8, 9, 13
diseases, parasitic, diagnosis and prevention	1150	4–5
drenching with copper sulphate solution, directions	1150	39–41
flukes, description, life history, and control	1150	33–37
gid, parasite, origin, description, life history, symptoms and control	1150	27–31

	Farmers' Bulletin No.	Page.
Sheep—Continued.		
head grub, description, habits, symptoms, treatment, and prevention	1150	17–19
hookworm, description, life history, symptoms, and prevention	1150	45–47
hydatid, description, life history, and prevention	1150	31–33
inclosures, disinfection	1150	8, 9–10, 13
injury by lice, symptoms	1150	7
lice, description, kinds, life history, symptoms and control	1150	5–8
lungworms, description, life history and control	1150	50–53
measles, description, life history, symptoms and control	1150	26–27
parasites and parasitic diseases, bulletin by Maurice C. Hall	1150	1–53
pasturing on Sudan grass	1126	18, 19
roundworms, description, life history, symptoms and control	1150	37–53
scab, cause, symptoms and control	1150	10–13
tapeworms, description, life history, symptoms and control	1150	20–23
tick, description, life history, symptoms and control	1150	8–10
Sheep-wool maggots, description and control on sheep	1150	16
SHEETS, E. W., bulletin on "The beef calf: Its growth and development"	1135	1–32
Shocking, rice, directions	1141	15–16
Shortcake, strawberry, or other fruits	1136	32
Silage—		
cowpeas and other crops in mixture	1148	18
Sudan grass, value	1126	17
Slops. *See* Garbage.		
Smut, sorghum, seed treatment	1137	17
Soda nitrate, use—		
as fertilizer for corn, distribution methods	1149	6, 7, 8, 9
on crimson clover	1142	11, 13
Sodium fluorid, use against sheep lice	1150	7
Soil—		
corn, needs in moisture, drainage, plowing, and humus	1149	3–5
inoculation—		
with clover bacteria	1142	13
with lespedeza bacteria	1143	9
peanut, selection and preparation	1127	5
Soiling, Sudan grass, value	1126	17
Soils—		
adobe, use in rice growing, possibilities, California	1141	3–4, 6, 13
Coastal Plains, fertilizers for corn	1149	7–8
cowpea, requirements	1148	5
crimson clover adaptation	1142	9–10
mountain, fertilizers for corn	1149	8
Piedmont, fertilizers for corn	1149	8
Sorghum—		
grain—		
cultivation	1137	21
harvesting, curing, thrashing, and storing	1137	21–26
growing with cowpeas for hay or silage	1148	18–19
smut, seed treatment	1137	17
Sorghums, grain—		
growing, bulletin by Benton E. Rothgeb	1137	1–26
improvement methods	1137	12–17
publication list	1147	19
publications of Department	1137	26
varieties, description, habits, and requirements	1137	4–12
Sorgo, hay, comparison with millet and Sudan grass	1126	9
South Carolina—		
corn growing, practices and suggestions	1149	3–19
game laws, 1920	1138	36–37
South Dakota, game laws, 1920	1138	37
South, lespedeza, growing and forage value	1143	3–6, 9–11
Southeast, corn growing, bulletin by C. H. Kyle	1149	1–19
Southern—		
field pea. *See* Cowpeas.		
pea. *See* Cowpeas.		
Sowing. *See* Seeding.		
Sow-thistle aphis, occurrence on currants, description and control	1128	30, 48

	Farmers' Bulletin No.	Page.
Soy beans—		
growing with cowpeas for hay or pasture	1148	20–21
value, comparison with cowpeas and velvet beans	1148	25–26
Spanish moss, occurrence on pecan trees, control	1129	20
Spoon bread, recipe	1136	29
Spraying—		
fruit aphids, formulas and directions	1128	38–48
pecans, for disease control	1129	5–8, 11
Stacking peanuts, directions	1127	17–19
Staghead, pecan, description and cause	1129	17
Stallions, dourine, symptoms and postmortem lesions	1146	5–9
Standardization, farm products, effect of cooperation	1144	3–4
Stem rot, crimson clover, causes and prevention	1142	13, 20
Stomach worm, sheep, description, habits, and treatment	1150	38–42
Storage—		
grain sorghum, and ventilator for use	1137	23–26
sorghum seed heads	1137	15
Storing, milo, directions	1147	16
Strawberry, shortcake recipe	1136	32
Strongyles, thread-necked, description, occurrence in sheep, preventive measures	1150	47–48
Stubble, seeding to crimson clover	1142	8
Subsoil, plow for use in corn land preparation	1149	4
Sudan grass—		
bulletin by H. N. Vinall	1126	1–30
comparison with Johnson grass	1126	3–6
growing with cowpeas for hay	1148	20
harvesting, and utilization as hay, soiling, silage	1126	14–18
kernel smut, description and control	1126	24, 26
mixture with legumes, yields and forage value	1126	10–11
origin, description, soil and climate requirements	1126	3–9
pasture, value for stock, danger for cattle	1126	18–19
red-spot disease, description and control by rotation	1126	24
seed production yields, and importance of purity	1126	21–24
seeding, date, method and rate, directions	1126	12–14
Sweet-potato pie, recipe	1136	35
Swine, management, publications of Department, list	1133	26
Swine. *See also* Hogs.		
Synthetocaulus rufescens, description, occurrence in sheep and treatment	1150	51–53
Tænia—		
hydatigena, development in dogs	1150	25
marginata, development in dogs	1150	24
ovis, development in dogs, and treatment	1150	27
Tapeworm, fringed, description, life history and symptoms	1150	22–23
Tapeworms, sheep, description, life history, symptoms and control	1150	20–23
Tar, use on corn seed, directions	1149	13
Temperature, testing in refrigerator cars	1145	21
Tennessee, game laws, 1920	1138	37–38
Texas—		
game laws, 1920	1138	38–39
milo, growing and yields	1147	4, 5, 6, 9, 16
Thistle aphis, long-beaked, occurrence on plum trees, description and control	1128	17, 47–48
Thorn-leaf aphis, occurrence, and description	1128	14–15
Thrashing—		
grain sorghum	1137	23
milo, directions	1147	15
rice, directions	1141	16–17
sorghum seed heads	1137	16
Tick, sheep, description, life history, symptoms and control	1150	8–10
Tile-trenching machinery, bulletin by D. L. Yarnell	1131	1–27
Tipburn, pecan, cause	1129	17–18
Transportation, cantaloupes, and handling, bulletin by A. W. McKay, G. L. Fischer, and A. E. Nelson	1145	1–23

	Farmers' Bulletin No.	Page.
Trenching—		
machinery for tile laying, bulletin by D. L. Yarnell	1131	1–27
machines, types, description, capacity, cost, and selection	1131	4–14, 26
Tricharis ovis, description, occurrence in sheep, etc	1150	48–49
Trichodectes ovis, description and control on sheep	1150	5, 6, 7–8
Tuberculosis, hog, causes and prevention	1153	19–20
Turkey, use in control of grasshoppers	1140	12
Thysanosoma actinoides, description, occurrence in sheep and treatment	1150	22–23
URBAHNS, T. D., bulletin on "Grasshopper control in the Pacific States"	1140	1–16
Utah, game laws, 1920	1138	39
Velvet beans, value, comparison with cowpeas and soy beans	1148	25–26
Ventilator, sorghum bin, description and construction	1137	24–25
Vermont, game laws, 1920	1138	39–40
Vetch, hairy, growing with crimson clover	1142	19
Victor cowpea, description of seed and plant, and disease resistance	1148	6, 8, 22
Vigna sinensis—		
cylindrica, origin, characteristics and uses	1148	3, 10
sesquipedalis. *See* Bean, asparagus.		
VINALL, H. N., bulletin on "Sudan grass"	1126	1–30
Vineyards, protection from grasshoppers	1140	14–15
Virginia, game laws, 1920	1138	39–40
Waffles, recipes and directions	1136	31–32
Washington, game laws, 1920	1138	41–42
Waste—		
city, utilization as hog feed, saving and collection, etc	1133	3–9
household, care and disposal, receptacles, etc	1133	6
Water supply, location on farmstead, importance	1132	9, 18, 21, 22, 24
Water-lily aphis, occurrence on plum trees, description, habits, and control	1128	17–18, 47–48
Weaning, calf, directions	1135	17
Weeder, peanut	1127	14
Weeds, rice, description, spread, and control	1141	17–21
Weevils, cowpeas, control methods	1148	23–25
WESSLING, HANNAH L., bulletin on "Baking in the home"	1136	1–40
West Virginia, game laws, 1920	1138	42–43
Wheat, growing with crimson clover as mixture for hay	1142	19
Whippoorwill cowpea, description of seed and plants, and yields	1148	6, 7, 15
Whipworm, description, occurrence in sheep, prevention, etc	1150	48–49
WILLIAMS, C. B., formulas for corn fertilizers in Southeastern States	1149	6–9
WILSON, A., and F. C. ASHBROOK, bulletin on "Feeding garbage to hogs"	1133	1–26
Wilt, cowpea, description and control	1148	22–23
Windbreaks, farm, nature, and location in planning farmsteads	1132	11, 19, 21, 22, 24
Wisconsin, game laws, 1920	1138	43
Wood-rots, pecan, cause and prevention	1129	9–10
Wool, infestation by maggots, prevention	1150	16
Worms, stomach, description, life history, symptoms and control	1150	38–42
Wyoming, game laws, 1920	1138	44
Yardlong bean. *See* Bean, asparagus.		
YARNELL, D. L., bulletin on "Tile-trenching machinery"	1131	1–27
Yeast—		
directions for use	1136	5, 8, 10, 11, 12
liquid, recipe and directions	1136	5–6
Yukon, game laws, 1920	1130	51–52

XUM